# IPD Project Details

**Project ID:** IPD1063

**Project Title:** Identifying alterations post ILK inhibition in Meningioma cell lines

**Description:** The current study reports alterations in PI3-Akt and Focal adhesion pathway post ILK inhibition in meningioma cell lines. The inhibition is done using a pyrazole that specifically inhibits Integrin Link Kinase. The global proteomic profile was analysed post treatment (24 hours) in treated vs untreated cell line replicates.

**Principal Investigator:** Dr Sanjeeva Srivastava

**PI Affiliation:** Indian Institute of Technology Bombay

**Sample Preparation:** Sample preparation was done using the Urea Lysis buffer. The cells were treated with the inhibitor for 24 hrs. and control and treated cell lines were pelleted down and washed in 1X PBS buffer post that the cells were lysed in lysis buffer.

**Peptide Separation:** Global proteomic alterations were examined using LFQ proteomic analysis.

**Protein Characterization:** Data as procured from the mass spectrometer was used for analysis using Proteome Discoverer 2.2. The three control and treated triplicates were analysed simultaneously using a combined workflow. The FDR was kept at 1 %. Database against which it was searched is Human database from SEQUEST and MASSCOT.

**Experiment Type:** Shotgun proteomics

**Species:** Data in species_details  No Data

**Tissue:** Data in tissue_details  No Data

**Cell Type:** Data in cell_details  No Data

**Disease:** Data in disease_details  No Data

**Instrument Details:** Data in instrument_details  Data in instrument_details

**Protein Modifications:** iodoacetamide derivatized residue

**PubMed ID:** 32974197